

1/3

Trunk bark (1.9 kg)

Grinding and then basifying with NH_4OH

Soxhlet CH_2Cl_2
Soxhlet MeOH

MeOH extract
258.5 g

CH_2Cl_2 extract
44 g

Flash CC, elution $\text{EtOAc}/\text{CH}_2\text{Cl}_2$ (8:2)

f1 3.81 g
f2 16.52 g
f3 2.32 g
f4 3.78 g
f5 1.99 g
f6 1.65 g
f7 1.99 g
f8 1.88 g
f9 6.52 g

Et₂O/Ac₂O (v/v)

F6a soluble 1.35 g
F6b insoluble 306 mg

Crystallization from acetone

f3a 16.52 g
f3b 520 mg
f4 1.84 g
f5 1.94 g

semi-preparative HPLC on 197 mg

5-methoxycanthin-6-one
150 mg

CC = column chromatography
HPLC = high performance liquid chromatography

FIGURE 1

Effectiveness of canthin-6-one and of benznidazole on mice experimentally infected with *Trypanosoma cruzi*

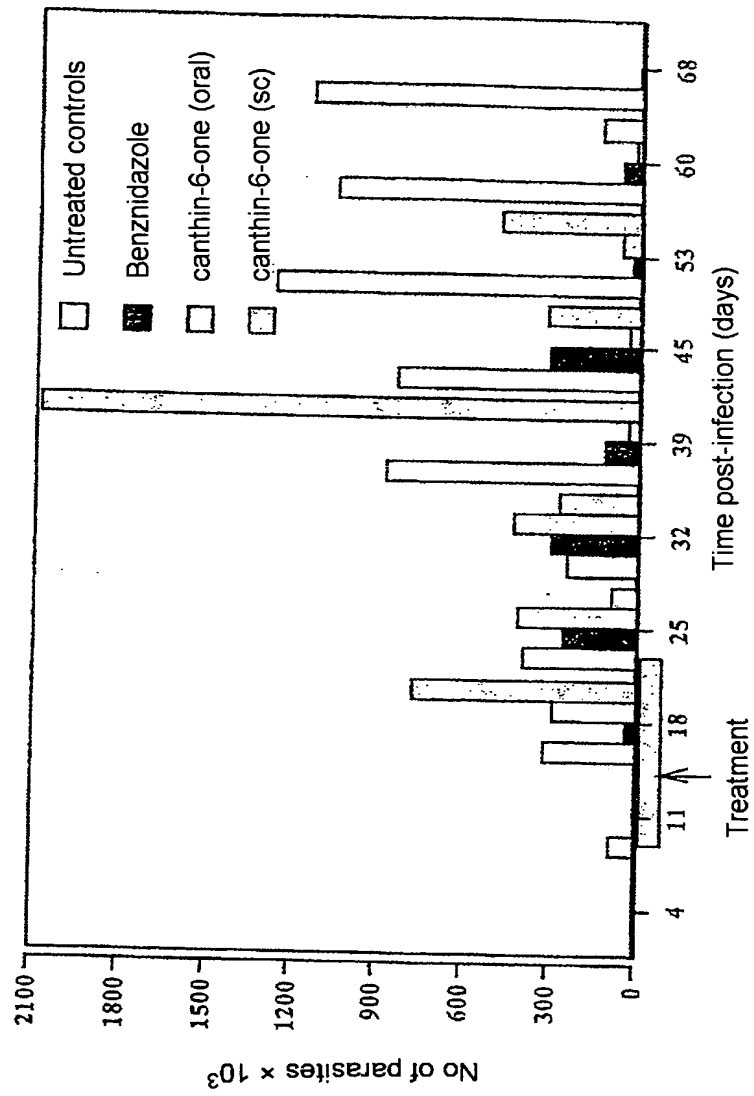


FIGURE 2

Effect of treatment with canthin-6-one or benznidazole on Pearl Bright mice infected with *T. cruzi*. Serological evaluation (ELISA assay)

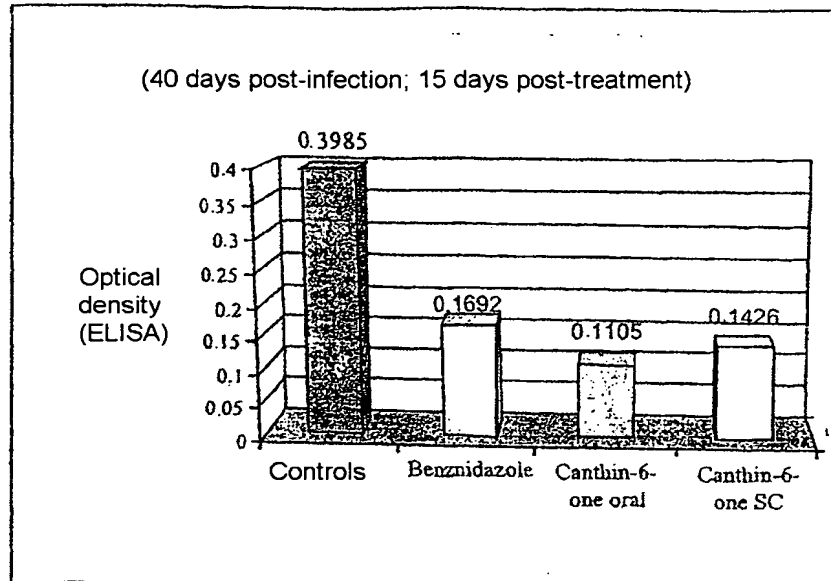


FIGURE 3

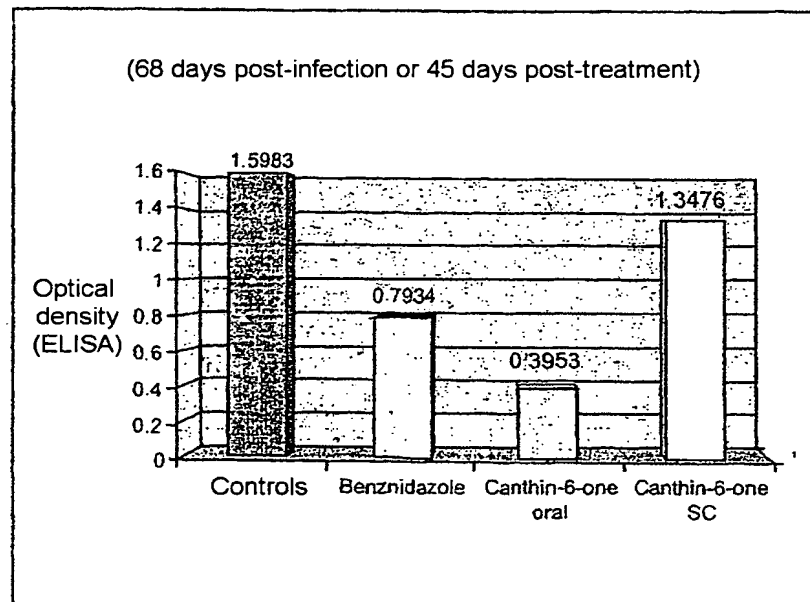


FIGURE 4